

What is claimed is:

1           1.       A laundry drier having a heater control circuit, the heater control circuit  
2 comprising:

3           a heater for being driven by a plurality of high voltages via a plurality of heater  
4 drivers;

5           a microcomputer for outputting a control signal according to a user input, the control  
6 signal determining the high voltage drive of said heater; and

7           a heater control interface for generating a plurality of heater control signals  
8 corresponding to the plurality of high voltages, based on the control signal of said  
9 microcomputer, the plurality of heater control signals selectively enabling only one of the  
10 plurality of heater drivers.

1           2.       The apparatus as claimed in claim 1, wherein the plurality of heater drivers  
2 consists of enabled and disabled heater drivers.

1           3.       The apparatus as claimed in claim 2, wherein said heater control interface  
2 comprises a switching circuit for selectively outputting only one of the plurality of heater  
3 control signals as a first logic level signal for enabling only one of the plurality of heater  
4 drivers.

1           4.       The apparatus as claimed in claim 3, wherein said switching circuit outputs a  
2 second logic level signal to the disabled heater drivers.

1           5.       The apparatus as claimed in claim 3, wherein said switching circuit  
2 comprises a form C contact relay.

1           6.       The apparatus as claimed in claim 1, wherein the outputted control signal of  
2 said microcomputer is output from a plurality of logical output ports.

1           7.       The apparatus as claimed in claim 6, further comprising a current buffer  
2 having outputs corresponding to logic states the plurality of logical output ports of said  
3 microcomputer.

1           8.       The apparatus as claimed in claim 6, wherein the control signal output  
2 comprises first and second output ports, the first output port having a logic state determining  
3 the high voltage drive of said heater and the second output port held at a fixed value.

1           9.       The apparatus as claimed in claim 8, wherein the fixed value of the second  
2 output port of said microcomputer is a logic low.